

Title (en)

METHOD FOR MANUFACTURING A VALVE BODY HAVING ONE OR MORE CORROSION-RESISTANT INTERNAL SURFACES

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES VENTILKÖRPERS MIT EINER ODER MEHREREN KORROSIONSBESTÄNDIGEN INNENFLÄCHEN

Title (fr)

PROCÉDÉ DE FABRICATION D'UN CORPS DE VANNE POSSÉDANT UNE OU PLUSIEURS SURFACES INTERNES RÉSISTANT À LA CORROSION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2017196513A1] A method of manufacturing a valve body having one or more corrosion-resistant internal surfaces. The method involves performing a casting process, which includes pouring a first material into a mold box, to produce a valve body casting made of the first material. During the casting process, a layer of a second material is formed on one or more internal surfaces of the valve body casting, the second material having a higher corrosion resistance than the first material, by: (1) applying, with an additive manufacturing technique, the second material to one or more external surfaces of a core, and (2) inserting the core into the mold box. A portion of the first material binds to the second material on the one or more external surfaces of the core while the first material is poured into the mold box.

IPC 8 full level

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Citation (search report)

See references of WO 2017196513A1

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WO 2017196513 A1 20171116; CA 3024268 A1 20171116; CN 107414024 A 20171201; CN 107414024 B 20220208; CN 207447352 U 20180605; EP 3455528 A1 20190320; EP 3455528 B1 20240320; RU 2018143346 A 20200610; RU 2018143346 A3 20200610; RU 2745701 C2 20210330; US 10220440 B2 20190305; US 11229947 B2 20220125; US 2017326633 A1 20171116; US 2019151940 A1 20190523

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